04/12/2005 16:47 FAX 202 824 3001

BANNER & WITCOFF

Ø1004/029

1

Alcot to Ester Substitute Specification Ex TAP Y/21/2005

SPECIFICATIONS

TITLE OF THE INVENTION

Method for processing magnetic resonance imaging image information and magnetic resonance imaging system

5

15

20

25

CROSS REFERENCE TO RELATED APPLICATIONS:

This application is based upon and claims the benefit of priority from the prior Japan Patent Application No. P2002-298642, filed October 11, 2002, the entire contents of which are incorporated herein by reference.

10 BACKGROUND OF THE INVENTION AND RELATED ART STATEMENT

This invention relates to a method for processing magnetic resonance imaging image information that is preferably used for a nondestructive inspection of an internal structure of a three-dimensional object such as a human body and also relates to a magnetic resonance imaging system used in the method.

Conventionally, X-ray photography has been widely used for inspecting an internal structure of a human body. The X-ray irradiating a human body transmits an image of the human body, however, transmittance becomes low in bones. Then fracture of the bone can be diagnosed with an X-ray photograph.

However, there is a problem that X-rays cannot inadiate often on a human body because an enormous quantity of X-rays inadiated on a human body will damage cellular of the human body.

In order to solve this problem, an approach has been made that a magnetic field is irradiated on a human body so as to inspect an internal structure of the human body with magnetic resonance spectral intensity distribution by making use of a magnetic resonance phenomenon.

"Research of Structural Image Process for Optical Brain Function Measurement" by Masahiko Matuo, Hirofumi Hamada, Naohiro Fujikawa, Hideaki Ninomiya, Hideo Eda and Satoru Miyauchi, p55 of the Proceedings of Japan Soc. ME & BB Conference (May, 2002).